CR Magnetics **CR8300** Series of PCB Mounted Current Transformers are available in a wide range of sizes and materials to meet any AC current sensing needs. Our **General Purpose** designs are made from the highest quality silicon steel cores available, and meet most of the common AC current measurement needs. Our **Revenue Grade** CTs (-N) are made from a nickel alloy core which provides the most linear response over temperature and current level. The **High Frequency** (-F) products are designed for high frequency applications such as high frequency power supplies and motor drives. CR Magnetics offers **DC Immune** (-D) models that are designed to provide sensing of AC currents where DC offsets also exist. All products are offered in standard sizes, with the most popular turns ratios. UL, CSA, CE, and RoHS acceptance are all standard.

Part Number	l,	Vmax RMS	Te (typ.)	DCR Ω	Frequency	Pin Diameter						
CR8320-1600	10	1.8	1613	95	20 - 1 KHz	0.8 X 4.0 MM						
CR8348-1000	20	7.0	1023	24	20 - 1 KHz	1.0 X 3.0 MM						
CR8348-2000	50	13.7	2046	106	20 - 1 KHz	1.0 X 3.0 MM						
CR8349-1000	50	11.6	1016	35	20 - 1 KHz	1.0 X 6.0 MM						
CR8349-1500	75	15.5	1520	80	20 - 1 KHz	1.0 X 4.0 MM						
CR8350-1000	100	16.5	1021 22 20 - 1 KHz		20 - 1 KHz	1.0 X 3.0 MM						
CR8350-2000	200	31.0	2037	73	20 - 1 KHz	1.0 X 3.0 MM						
REVENUE GRADE VERTICAL PCB CURRENT TRANSFORMERS												
Part Number	l <sub>r</sub>	Vmax RMS	Te (typ.)	DCR $\Omega$	Frequency	Pin Diameter						
CR8348-2500-N	40	7.5	2510	134	20 - 1 KHz	1.0 X 3.0 MM						
CR8349-1000-N	50	5.1	1009	32	20 - 1 KHz	1.0 X 3.0 MM						
CR8349-2500-N	75	11.2	2512	190	20 - 1 KHz	1.0 X 3.0 MM						
CR8350-2500-N	100	10.5	2511	57	20 - 1 KHz	1.0 X 6.0 MM						
HIGH F	REQUEN	Y VERTIC	AL PCB C	URRENT	TRANSFO	RMERS						
Part Number	l <sub>r</sub>	Vmax RMS	Te (typ.)	DCR Ω	Frequency	Pin Diameter						
CR8348-2000-F	50	3.7	2022	88	20 - 200KHz	1.0 X 6.0 MM						
CR00 10 2000 1	30											
CR8349-2000-F	75	16.0	2024	109	20 - 200KHz	1.0 X 3.0 MM						
CR8349-2000-F		16.0 10.0		109 73	20 - 200KHz 20 - 200KHz							
CR8349-2000-F CR8350-2000-F	75 100		2024	73	20 - 200KHz	1.0 X 3.0 MM						
CR8349-2000-F CR8350-2000-F	75 100	10.0	2024	73	20 - 200KHz	1.0 X 3.0 MM						
CR8349-2000-F CR8350-2000-F	75 100 <b>MMUNE</b>	10.0  VERTICAL	2024 2027 PCB CUR	73	20 - 200KHz ANSFOR <i>N</i>	1.0 X 3.0 MM 1.0 X 3.0 MM LERS Pin Diameter 1.0 X 6.0 MM						
CR8349-2000-F CR8350-2000-F DC I	75 100 <b>MMUNE</b>	10.0  VERTICAL  Vmax RMS	2024 2027 PCB CUR	73 RENT TRA	20 - 200KHz  ANSFORN  Frequency	1.0 X 3.0 MM  IERS  Pin Diameter						

T<sub>□</sub> = Maximum Input Current to be linearly sensed 

V==== Maximum Voltage (Saturation) CT will develop

(All Specifications tested at 60 Hz)

PACKAGE AND PIN OUT DIMENSIONS (mm/in)												
Part Number Prefix		В	C	D	E	F	G	Н				
	min	max	max	max	$\pm 0.3$	$\pm0.3$	$\pm0.3$	typ				
CR8320	5.5 .22	19.4 .76	19.5 .77	8.2 .32	12.7 .50	N/A	N/A	4.0 .16				
CR8348	6.7 .27	23.5 .93	25 .98	11 .43	15.2 .60	9.5 .37	19 .75	1.90 .07				
CR8349	9 .35	26 1.02	28 1.10	17 .67	15.2 .60	15.5 .61	19 .75	1.90 .07				
CR8350	12.8 .50	37.5 1.48	39 1.54	14 .55	25.4 1.00	12.7 .50	33.02 1.30	3.81 .15				

# **CR8300 SERIES**



### **Applications**

Motor Load Measurement Power Meters

**High Frequency Current Sensing** 

#### **Features**

High Ratio

**Standard Footprints** 

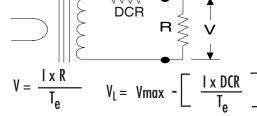
### **Specifications**

Maximum Continuous Primary Current 4 X Ir Insulation Voltage 3500 Vac/1min Storage Temp. -45°C thru +85°C

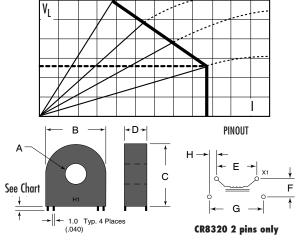
Operating Temp. General Purpose & Nickel -40°C thru +85 °C
Operating Temp. High Frequency -40°C thru +65 °C

## **Regulatory Agencies**





For best linearity, choose R such that  $\text{V} < 0.8 \; \text{V}_{\text{I}}$ 





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